

Paper # 5  
8/30/2000  
OIPE

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/643,260

DATE: 08/30/2000  
TIME: 14:27:40

Input Set : A:\Yu5066ul.app  
Output Set: N:\CRF3\08302000\I643260.raw

ENTERED

3 <110> APPLICANT: May, Michael J.  
4 Ghosh, Sankar  
6 <120> TITLE OF INVENTION: Inhibition of NF-kappa B Activation by Blockade of IKK  
7 beta-NEMO Interactions at the NEMO Binding Domain  
9 <130> FILE REFERENCE: 44574-5066-US  
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/643,260  
C--> 12 <141> CURRENT FILING DATE: 2000-08-22  
14 <150> PRIOR APPLICATION NUMBER: US 60/201,261  
15 <151> PRIOR FILING DATE: 2000-05-02  
17 <160> NUMBER OF SEQ ID NOS: 27  
19 <170> SOFTWARE: PatentIn Ver. 2.1  
21 <210> SEQ ID NO: 1  
22 <211> LENGTH: 33  
23 <212> TYPE: DNA  
24 <213> ORGANISM: Homo sapiens  
26 <220> FEATURE:  
27 <223> OTHER INFORMATION: NEMO binding domain (NBD) of wild type IKK beta  
29 <400> SEQUENCE: 1  
30 acggccctag actggagctg gttacagacg gaa 33  
33 <210> SEQ ID NO: 2  
34 <211> LENGTH: 6  
35 <212> TYPE: PRT  
36 <213> ORGANISM: Artificial Sequence  
38 <220> FEATURE:  
39 <223> OTHER INFORMATION: Description of Artificial Sequence: NBD peptide  
40 sequence  
42 <400> SEQUENCE: 2  
43 Leu Asp Trp Ser Trp Leu  
44 1 5  
47 <210> SEQ ID NO: 3  
48 <211> LENGTH: 6  
49 <212> TYPE: PRT  
50 <213> ORGANISM: Artificial Sequence  
52 <220> FEATURE:  
53 <223> OTHER INFORMATION: Description of Artificial Sequence: NBD mutant  
54 peptide sequence  
56 <400> SEQUENCE: 3  
57 Leu Asp Ala Ser Ala Leu  
58 1 5  
61 <210> SEQ ID NO: 4  
62 <211> LENGTH: 6  
63 <212> TYPE: PRT  
64 <213> ORGANISM: Artificial Sequence  
66 <220> FEATURE:  
67 <223> OTHER INFORMATION: Description of Artificial Sequence: NBD mutant  
68 peptide sequence  
70 <400> SEQUENCE: 4

RAW SEQUENCE LISTING                      DATE: 08/30/2000  
 PATENT APPLICATION: US/09/643,260        TIME: 14:27:40

Input Set : A:\Yu5066ul.app  
 Output Set: N:\CRF3\08302000\I643260.raw

```

71 Ala Asp Trp Ser Trp Leu
72   1                               5
75 <210> SEQ ID NO: 5
76 <211> LENGTH: 6
77 <212> TYPE: PRT
78 <213> ORGANISM: Artificial Sequence
80 <220> FEATURE:
81 <223> OTHER INFORMATION: Description of Artificial Sequence: NBD mutant
82   peptide sequence
84 <400> SEQUENCE: 5
85 Leu Asp Trp Ser Trp Ala
86   1                               5
89 <210> SEQ ID NO: 6
90 <211> LENGTH: 6
91 <212> TYPE: PRT
92 <213> ORGANISM: Artificial Sequence
94 <220> FEATURE:
95 <223> OTHER INFORMATION: Description of Artificial Sequence: NBD mutant
96   peptide sequence
98 <400> SEQUENCE: 6
99 Ala Asp Trp Ser Trp Ala
100  1                               5
103 <210> SEQ ID NO: 7
104 <211> LENGTH: 6
105 <212> TYPE: PRT
106 <213> ORGANISM: Artificial Sequence
108 <220> FEATURE:
109 <223> OTHER INFORMATION: Description of Artificial Sequence: NBD mutant
110   peptide sequence
112 <400> SEQUENCE: 7
113 Leu Ala Trp Ser Trp Leu
114  1                               5
117 <210> SEQ ID NO: 8
118 <211> LENGTH: 6
119 <212> TYPE: PRT
120 <213> ORGANISM: Artificial Sequence
122 <220> FEATURE:
123 <223> OTHER INFORMATION: Description of Artificial Sequence: NBD mutant
124   peptide sequence
126 <400> SEQUENCE: 8
127 Leu Glu Trp Ser Trp Leu
128  1                               5
131 <210> SEQ ID NO: 9
132 <211> LENGTH: 6
133 <212> TYPE: PRT
134 <213> ORGANISM: Artificial Sequence
136 <220> FEATURE:
137 <223> OTHER INFORMATION: Description of Artificial Sequence: NBD mutant
138   peptide sequence

```

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/643,260

DATE: 08/30/2000  
TIME: 14:27:40

Input Set : A:\Yu5066ul.app  
Output Set: N:\CRF3\08302000\I643260.raw

140 <400> SEQUENCE: 9  
141 Leu Asn Trp Ser Trp Leu  
142 1 5  
145 <210> SEQ ID NO: 10  
146 <211> LENGTH: 6  
147 <212> TYPE: PRT  
148 <213> ORGANISM: Artificial Sequence  
150 <220> FEATURE:  
151 <223> OTHER INFORMATION: Description of Artificial Sequence: NBD mutant  
152 peptide sequence  
154 <400> SEQUENCE: 10  
155 Leu Asp Ala Ser Trp Leu  
156 1 5  
159 <210> SEQ ID NO: 11  
160 <211> LENGTH: 6  
161 <212> TYPE: PRT  
162 <213> ORGANISM: Artificial Sequence  
164 <220> FEATURE:  
165 <223> OTHER INFORMATION: Description of Artificial Sequence: NBD mutant  
166 peptide sequence  
168 <400> SEQUENCE: 11  
169 Leu Asp Phe Ser Trp Leu  
170 1 5  
173 <210> SEQ ID NO: 12  
174 <211> LENGTH: 6  
175 <212> TYPE: PRT  
176 <213> ORGANISM: Artificial Sequence  
178 <220> FEATURE:  
179 <223> OTHER INFORMATION: Description of Artificial Sequence: NBD mutant  
180 peptide sequence  
182 <400> SEQUENCE: 12  
183 Leu Asp Tyr Ser Trp Leu  
184 1 5  
187 <210> SEQ ID NO: 13  
188 <211> LENGTH: 6  
189 <212> TYPE: PRT  
190 <213> ORGANISM: Artificial Sequence  
192 <220> FEATURE:  
193 <223> OTHER INFORMATION: Description of Artificial Sequence: NBD mutant  
194 peptide sequence  
196 <400> SEQUENCE: 13  
197 Leu Asp Trp Ser Ala Leu  
198 1 5  
201 <210> SEQ ID NO: 14  
202 <211> LENGTH: 6  
203 <212> TYPE: PRT  
204 <213> ORGANISM: Artificial Sequence  
206 <220> FEATURE:  
207 <223> OTHER INFORMATION: Description of Artificial Sequence: NBD mutant

RAW SEQUENCE LISTING                      DATE: 08/30/2000  
 PATENT APPLICATION: US/09/643,260        TIME: 14:27:40

Input Set : A:\Yu5066ul.app  
 Output Set: N:\CRF3\08302000\I643260.raw

```

208      peptide sequence
210 <400> SEQUENCE: 14
211 Leu Asp Trp Ser Phe Leu
212   1           5
215 <210> SEQ ID NO: 15
216 <211> LENGTH: 6
217 <212> TYPE: PRT
218 <213> ORGANISM: Artificial Sequence
220 <220> FEATURE:
221 <223> OTHER INFORMATION: Description of Artificial Sequence: NBD mutant
222      peptide sequence
224 <400> SEQUENCE: 15
225 Leu Asp Trp Ser Tyr Leu
226   1           5
229 <210> SEQ ID NO: 16
230 <211> LENGTH: 6
231 <212> TYPE: PRT
232 <213> ORGANISM: Artificial Sequence
234 <220> FEATURE:
235 <223> OTHER INFORMATION: Description of Artificial Sequence: NBD mutant
236      peptide sequence
238 <400> SEQUENCE: 16
239 Leu Asp Trp Ala Trp Leu
240   1           5
243 <210> SEQ ID NO: 17
244 <211> LENGTH: 6
245 <212> TYPE: PRT
246 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
249 <223> OTHER INFORMATION: Description of Artificial Sequence: NBD mutant
250      peptide sequence
252 <400> SEQUENCE: 17
253 Leu Asp Trp Glu Trp Leu
254   1           5
257 <210> SEQ ID NO: 18
258 <211> LENGTH: 28
259 <212> TYPE: PRT
260 <213> ORGANISM: Artificial Sequence
262 <220> FEATURE:
263 <223> OTHER INFORMATION: Description of Artificial Sequence: Wild type NBD
264      peptide
266 <400> SEQUENCE: 18
267 Asp Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys
268   1           5           10           15
270 Lys Thr Ala Leu Asp Trp Ser Trp Leu Gln Thr Glu
271           20           25
274 <210> SEQ ID NO: 19
275 <211> LENGTH: 28
276 <212> TYPE: PRT

```

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/643,260

DATE: 08/30/2000  
 TIME: 14:27:40

Input Set : A:\Yu5066ul.app  
 Output Set: N:\CRF3\08302000\I643260.raw

```

277 <213> ORGANISM: Artificial Sequence
279 <220> FEATURE:
280 <223> OTHER INFORMATION: Description of Artificial Sequence: Mutant NBD
281     peptide
283 <400> SEQUENCE: 19
284 Asp Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys
285   1             5             10             15
287 Lys Thr Ala Leu Asp Ala Ser Ala Leu Gln Thr Glu
288           20           25
291 <210> SEQ ID NO: 20
292 <211> LENGTH: 30
293 <212> TYPE: DNA
294 <213> ORGANISM: Artificial Sequence
296 <220> FEATURE:
297 <223> OTHER INFORMATION: Description of Artificial Sequence: RT-PCR primer
299 <400> SEQUENCE: 20
300 atagacgaat tcaataggca cctctggaag
303 <210> SEQ ID NO: 21
304 <211> LENGTH: 31
305 <212> TYPE: DNA
306 <213> ORGANISM: Artificial Sequence
308 <220> FEATURE:
309 <223> OTHER INFORMATION: Description of Artificial Sequence: RT-PCR primer
311 <400> SEQUENCE: 21
312 taggacctcg agtactcaa tgcactccat g
315 <210> SEQ ID NO: 22
316 <211> LENGTH: 36
317 <212> TYPE: DNA
318 <213> ORGANISM: Artificial Sequence
320 <220> FEATURE:
321 <223> OTHER INFORMATION: Description of Artificial Sequence: Forward PCR
322     primer
324 <400> SEQUENCE: 22
325 ctagtctgaat tcacctatgca gagcacagcc aattac
328 <210> SEQ ID NO: 23
329 <211> LENGTH: 33
330 <212> TYPE: DNA
331 <213> ORGANISM: Artificial Sequence
333 <220> FEATURE:
334 <223> OTHER INFORMATION: Description of Artificial Sequence: Reverse PCR
335     primer
337 <400> SEQUENCE: 23
338 ctagtctcta gattagacat caggaggtgc tgg
341 <210> SEQ ID NO: 24
342 <211> LENGTH: 18
343 <212> TYPE: DNA
344 <213> ORGANISM: Artificial Sequence
346 <220> FEATURE:
347 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA sequence

```

VERIFICATION SUMMARY                      DATE: 08/30/2000  
PATENT APPLICATION:    US/09/643,260       TIME: 14:27:41

Input Set : A:\Yu5066ul.app  
Output Set: N:\CRF3\08302000\I643260.raw

L:11 M:270 C: Current Application Number differs, Replaced Application Number  
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date